

3-027 SANTA MARGARITA

Basin Boundaries

Summary

The Santa Margarita groundwater basin is a triangularly shaped basin located in central Santa Cruz County. The northeastern boundary is the northwest/southeast trending Zayante Fault. The southern boundary, or base of the triangle, consists of both geologic and jurisdictional boundary lines. The southwestern boundary consists primarily of the northwest/southeast trending Ben Lomond Fault. The northern extent of the basin ends where the Zayante and Ben Lomond Faults intersect. The basin boundary is defined by twelve (12) segments detailed in the descriptions below.

Segment Descriptions

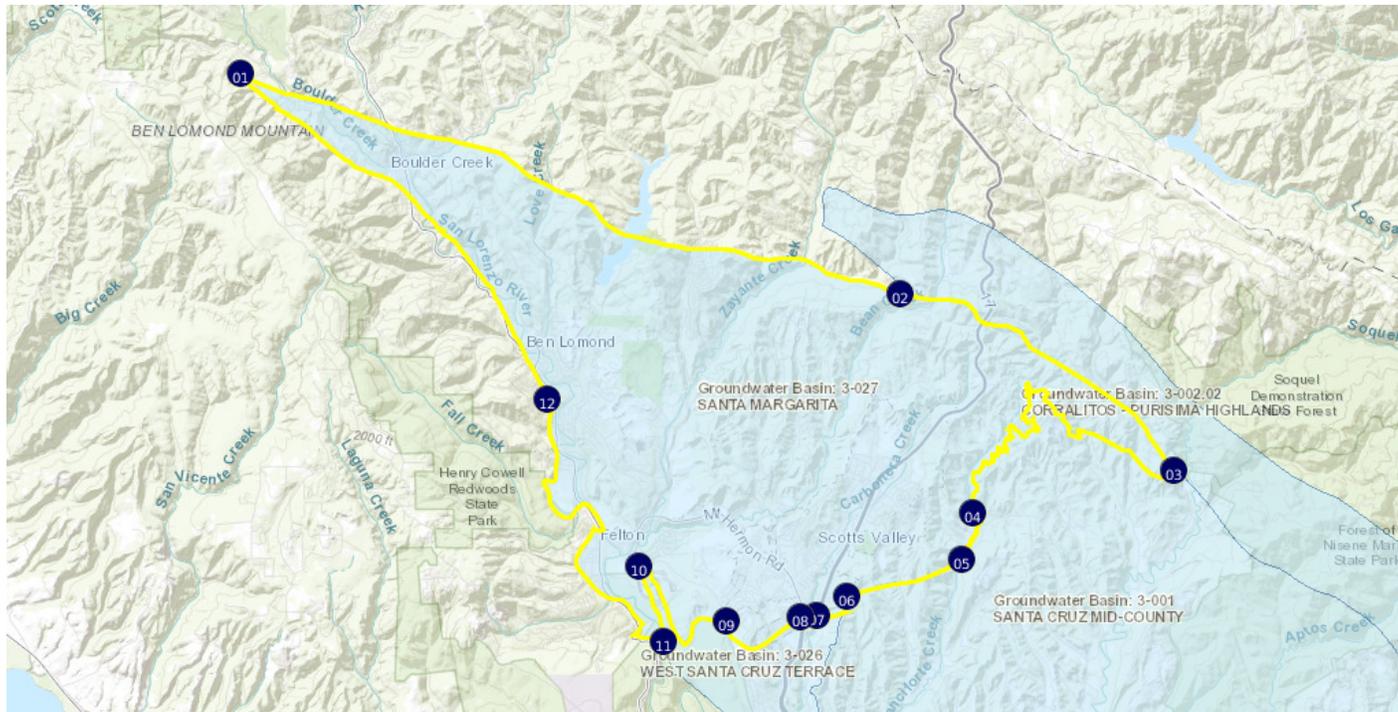
<u>Segment Label</u>	<u>Segment Type</u>	<u>Description</u>	<u>Ref</u>
1-2	^E Fault	Continues from point (1) and follows Zayante Fault to point (2).	{a}
2-3	^I Fault	Continues from point (2) and follows Zayante Fault to point (3).	{b}
3-4	^I Non-Alluvial	Continues from point (3) and follows the contact of Lompico Sandstone with Purisima Formation to point (4).	{c}
4-5	^I Stream	Continues from point (4) and follows Branciforte Creek to point (5).	{d}
5-6	^I Non-Alluvial	Continues from point (5) and follows the granitic high to point (6).	{c}
6-7	^I Water Agency	Continues from point (6) and follows the southern boundary of Scotts Valley Water District to point (7).	{e}
7-8	^I Water Agency	Continues from point (7) and follows the southern boundary of Scotts Valley Water District to point (8).	{e}
8-9	^I Non-Alluvial	Continues from point (8) and generally follows the granitic high to point (9).	{c}
9-10	^I Non-Alluvial	Continues from point (09) and follows the contact of Locatelli Formation with Lompico Formation to point (10).	{c}
10-11	^I Fault	Continues from point (10) and generally follows the Ben Lomond Fault to point (11).	{c}
11-12	^E Alluvial	Continues from point (11) and generally follows the contact of Quaternary alluvium with Miocene sediments to point (12).	{f}
12-1	^E Fault	Continues from point (12) and follows the Ben Lomond Fault and ends at point (1).	{f}

Significant Coordinates

<u>Point</u>	<u>Latitude</u>	<u>Longitude</u>	
1	37.14417295	-122.163326739	
2	37.100123973	-121.99788331	
3	37.064938214	-121.929078065	
4	37.056397231	-121.979588457	
5	37.046943147	-121.98245618	
6	37.03969016	-122.011331692	
7	37.035708425	-122.018846322	
8	37.035402675	-122.022843278	
9	37.034582627	-122.04144509	
10	37.045732519	-122.063265904	
11	37.030485789	-122.057120912	
12	37.079155824	-122.086539595	

Map

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<https://sgma.water.ca.gov/webgis/?appid=160718113212&subbasinid=3-027>

References

<u>Ref</u>	<u>Citation</u>	<u>Pub Date</u>	<u>Global ID</u>
{a}	California Geological Survey (CGS), Fault Activity Map of California, Geologic Data Map No. 6.URL: http://earthquake.usgs.gov/hazards/qfaults/	2010	40
{b}	California Geological Survey (CGS), Geologic Map of California, Geologic Data Map No. 2, C. W. Jennings, C. Gutierrez, W. Bryant, G. Saucedo, and C. Wills.URL: http://maps.conservation.ca.gov/cgs/gmc/	2010	43
{c}	BBMRS	varies	45
{d}	United States Geological Survey (USGS), National Hydrography Dataset, Flowline Dataset for California, note: Coordinated effort among the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS), the United States Geological Survey (USGS), and the Environmental Protection Agency (EPA).URL: http://nhd.usgs.gov/data.html	2/1/2016	1
{e}	California Department of Water Resources (DWR), Water Agencies Dataset.URL: https://gis.water.ca.gov/app/bbat/	2016	48
{f}	California Geological Survey (CGS), Regional Geologic Map No. 5A, San Francisco-San Jose Quadrangle, 1:250,000, D.L. Wagner, E.J. Bortugno, and R.D. McJunkin.URL: http://www.quake.ca.gov/gmaps/RGM/sfsj/sfsj.html	1991	8

Footnotes

- I: Internal
- E: External